MOHIT DEOLI

🔗 devmt04.github.io

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Technical Skills

Languages: C/C++, Python, Java, x86 Assembly, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Qt Creator, Android Studio
Technologies/Frameworks: Linux, Qt(C++), Django, PyTorch, Git, CMake, Makefile

Open Source Experience

Contributor - NumPy (Open Source Scientific Computing Library)   **August 2025 - Present**

- Contributed to the core codebase of NumPy, working with both C and Python code.
- Submitted 3 pull requests so far.
- Some Submitted PRs : **#29506**, **#29507**, **#29557**
- Github Repo : **devmt04/numpy**

Projects

TODOWidget | *C, XLib, SQL, Makefile*   **July 2024**

- Developed a lightweight and fully customizable desktop widget for managing to-do items on **Linux**, using low-level X11 api, C, and SQL.
- Implemented entirely from scratch with **no external dependencies for UI**, resulting in a minimal and efficient footprint.
- Manually created all GUI components for complete control and performance optimization.
- GitHub Repo: **devmt04/TODOWidget**

Vedika Web Browser | *C++, Qt, HTML/CSS/JS, CMake*   **May 2025**

- Developed a custom web browser with a fully-fledged tab and navigation system using Qt and C++.
- Designed to address **limitations in existing browsers** by enabling true **multitasking** with support for multiple web pages simultaneously.
- Implemented dynamic layout modes - **Single**, **Split**, and **Grid** to allow flexible viewing and interaction with multiple tabs.
- Built with a modular architecture showcasing strong **object-oriented design** and efficient custom widget integration for enhanced performance and visual control.
- GitHub Repo: **devmt04/VedikaBrowser**

HRNET-MTL : Multi-Task Human Image Model | *Python, NumPy, PyTorch*   **July 2025**

- Developed a **multi-task learning (MTL)** model using **High-Resolution Network (HRNet)** as the backbone architecture.
- Designed to simultaneously perform three tasks on human full-body images: **age estimation**, **body part segmentation**, and **pose estimation**.
- Reproduced and integrated the **PCGrad algorithm** by studying its original paper to address gradient conflicts problem commonly encountered in MTL.
- Engineered a **High-Level modular API** using Python OOP principles to allow easy customization and training by end users.
- GitHub Repo: **devmt04/HRNET-MTL**

Education

Lovely Professional University   **Apr. 2023 – Current**
Bachelor of Technology in Computer Science and Engineering   *Phagwara, Punjab*

Languages

English: Full Professional Proficiency
Hindi: Native Proficiency